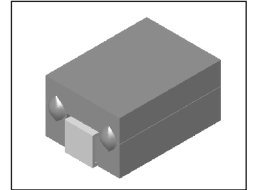


SMT Power Inductor

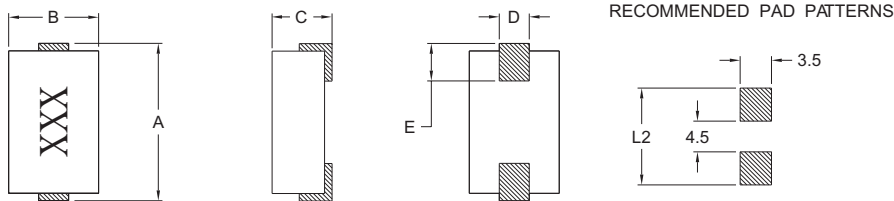
HCB1050B Type

Features

- RoHS compliant.
- Small size, low profile, SMD type.
- Magnetic shielded, suitable for high density mounting..
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor applications.



Mechanical Dimension :



UNIT : mm/inch
 B = 7.0 / 0.276 Max.
 D = 2.5 / 0.098
 E = 2.0 / 0.079

Electrical Characteristics : At 25°C: 100KHz, 1V

PART NO.	L ¹ (nH)	Li (nH) Min.	DCR (mΩ) MAX	I _{sat} ² (A dc)	I _{rms} ³ (A dc)	A (mm) MAX	C (mm) MAX	L2 (mm) MAX
HCB1050B-800	80	64	0.40	81	37	10.0	5.0	10.5
HCB1050B-900	90	72	0.40	72	37	10.0	5.0	10.5
HCB1050B-101	100	80	0.40	65	37	10.0	5.0	10.5
HCB1050B-121	125	90	0.40	54	37	10.0	5.0	10.5
HCB1050B-151	160	115	0.40	44	37	10.0	5.0	10.5
HCB1050B-201	210	151	0.40	32	37	10.0	5.0	10.5
HCB1050B-800L	80	64	0.245±10%	81	47	10.4	5.2	10.9
HCB1050B-900L	90	72	0.245±10%	72	47	10.4	5.2	10.9
HCB1050B-101L	100	80	0.245±10%	65	47	10.4	5.2	10.9
HCB1050B-121L	125	90	0.245±10%	54	47	10.4	5.2	10.9
HCB1050B-151L	160	115	0.245±10%	44	47	10.4	5.2	10.9
HCB1050B-201L	210	151	0.245±10%	32	47	10.4	5.2	10.9

1. Lo is the initial inductance and the tolerance of inductance is ±20%.
2. Isat is the DC current which cause the inductance drop to Li.
3. Ir is the DC current which cause the surface temperature of the part increase less than 45°C
4. Operating temperature : -20°C to 105°C (including self-temperature rise)



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